## WHAT IS CLAIMED IS:

1	1.	A method for updating a program in a data processing system comprising the	
2	steps	steps of:	
3		requesting a trusted platform module ("TPM") to perform a signature verification	
4	of an	update to the program;	
5		the TPM performing the signature verification of the update to the program;	
6		if the signature verification of the update to the program is successful, unlocking	
7	a men	a memory unit storing the program; and	
8		modifying the program with the update to the program in response to the	
9	unlocking of the memory unit storing the program.		
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	2.	The method as recited in claim 1, further comprising the step of:	
2		locking the memory unit after the modifying step.	
1	3.	The method as recited in claim 2, wherein the locking step is performed by the	
2	TPM.		

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1	l	4. A computer program product adaptable for storage on a computer readable
2	2	medium and operable for updating a BIOS stored in a flash memory in a data processing
3	3	system, comprising:
4	ļ	a BIOS update application program receiving an updated BIOS image;
5	5	the BIOS update application requesting a TPM to perform a signature verification
6	ó	of the updated BIOS image;
. 7		a TPM program receiving the request from the BIOS update application to
8	}	perform the signature verification of the updated BIOS image; and

ation to perform the signature verification of the updated BIOS image; and

the TPM program performing the signature verification of the updated BIOS image and posting a result of the signature verification of the updated BIOS image to the BIOS update application.

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1	5.	The computer program product as recited in claim 4, further comprising:
2		if the result of the signature verification of the updated BIOS image determines
3	that t	he updated BIOS image is authentic, then the TPM program unlocks the flash
4	memo	ory; and
5		the BIOS update application modifies the BIOS with the updated BIOS image.

- 6. The computer program product as recited in claim 5, further comprising:

  programming for locking the flash memory after the BIOS update application
  modifies the BIOS with the updated BIOS image.
- 7. The computer program product as recited in claim 6, further comprising: if the result of the signature verification of the updated BIOS image determines that the updated BIOS image is not authentic, then an error message is output.

1	8.	A data processing system having circuitry for updating a BIOS stored in a flash
2	memo	ory in the data processing system, comprising:
3		input circuitry for receiving an updated BIOS image;
4		circuitry for requesting a TPM to perform a signature verification of the updated
5	BIOS	image;
6		the TPM performing the signature verification of the updated BIOS image;
7		the TPM unlocking the flash memory if the signature verification of the updated
8	BIOS	image determines that the updated BIOS image is authentic; and
9		circuitry for modifying the BIOS with the updated BIOS image.

- 9. The system as recited in claim 8, further comprising:
  circuitry for locking the flash memory after the BIOS is modified with the
  updated BIOS image.
- 1 10. The system as recited in claim 8, further comprising:
- 2 circuitry for outputting an error if the signature verification of the updated BIOS image determines that the updated BIOS image is not authentic.